

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) Process for the preparation of perfluoroalkylphosphines, characterised in that it comprises at least the reaction of comprising reacting at least one fluoro(perfluoroalkyl)phosphorane with at least one hydride ion donor, wherein the reaction mixture is refluxed during the reaction, and a perfluoralkyl phosphine is produced.
2. (Currently Amended) Process A process according to Claim 1, characterised in that wherein the fluoro(perfluoroalkyl)phosphorane employed is a compound of the general formula I
$$(C_nF_{2n+1})_mPF_{5-m}$$

I

in which $1 \leq n \leq 8$, preferably $1 \leq n \leq 4$, and m is in each case 1, 2 or 3.
3. (Currently Amended) Process according to Claim 1, characterised in that wherein the fluoro(perfluoroalkyl)phosphorane employed is a compound selected from the group consisting of difluorotris(pentafluoroethyl)phosphorane, difluorotris(n-nonafluorobutyl)phosphorane, trifluorobis(n-nonafluorobutyl)phosphorane and or difluorotris(n-heptafluoropropyl)phosphorane.
4. (Currently Amended) Process according to Claim 1, characterised in that the reduction is carried out without a reaction medium.
5. (Currently Amended) Process according to Claim 1, characterised in that wherein the hydride ion donor is a compound selected from the group consisting of a hydrosilanes hydrosilane, an alkylhydrosilanes alkylhydrosilane, a metal hydrides hydride, a borohydrides borohydride and hydroborates or a hydroborate.

6. (Currently Amended) Process The process according to Claim 5, characterised in that wherein the alkylhydrosilane is triethylsilane or tripropylsilane.

7. (Currently Amended) Process The process according to Claim 5, characterised in that wherein the borohydride is sodium borohydride.

8. (Currently Amended) Process The process according to Claim 1, characterised in that wherein the hydride ion donor is employed in an equimolar amount or in excess, in each case based on the amount of fluoro(perfluoroalkyl)phosphorane employed.

9. (Cancelled)

10. (Currently Amended) Process The process according to Claim 1, characterised in that wherein the duration of the reaction is from 0.5 to 20 hours, preferably from 1 to 15 hours.

11. (Currently Amended) Process The process according to Claim 1, characterised in that wherein the perfluoroalkylphosphine(s) is (are) purified by distillation, preferably optionally under an inert-gas atmosphere, if desired and optionally under reduced pressure.

12. (Currently Amended) Use of at least one tris(perfluoroalkyl)phosphine A process for the perfluoroalkylation of chemical substrates, comprising reacting said substrates with a tris (perfluoroslkyl) phosphine.

13. (Original) Use The process according to Claim 12, characterised in that wherein the perfluoroalkylation is carried out in the presence of a base.

14. (Currently Amended) Use The process according to Claim 12, characterised in that wherein the substrates employed are organic compounds, preferably tricoordinated organoboron compounds and/or organic compounds containing carbonyl groups.